

In the Claims:

This listing of claims will replace all prior versions, and listing, of claims in the application:

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1. (Original) A method of selecting a tester design comprising:

selecting one or more design alternatives,
constructing a classifier for each alternative using sample data,
construction Operating Characteristics curves for each classifier, and
selecting a design alternative based on the Operating Characteristic curves.

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2. (Original) The method of Claim 1 where the step of selecting a design alternative further comprises:

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weighting each Operating Characteristics curve using cost constraints to form a result, and
selecting the Operating Characteristics curve with the minimal result.

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3. (Original) The method of Claim 1 where classifiers for each alternative are constructed from sample data gathered through data acquisition.

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4. (Original) The method of Claim 3 where data acquisition uses a factorial design when more than one alternative is present.

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5. (Original) The method of Claim 3 where data acquisition uses a one-way layout when only one alternative is present.

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6. (Currently Amended) A computer readable medium that includes executable instructions for ~~selecting a tester design processing sequence number information used in communications protocols~~, said computer readable medium comprising:

code for selecting one or more design alternatives,
code for constructing a classifier for each alternative using sample data,
code for construction Operating Characteristics curves for each classifier, and
code for selecting a design alternative based on the Operating Characteristic curves.

Agilent Technologies Attorney Docket No. : 10020618-1

7. (Original) The computer readable medium of Claim 6 where the code for selecting a design alternative further comprises:

code for weighting each Operating Characteristics curve using cost constraints

5 to form a result, and

code for selecting the Operating Characteristics curve with the minimal result.

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